

ACCESS SERVICE

15. Common Channel Signaling/Signaling System 7 (CCS/SS7) Data Base Services15.1 Line Information Data Base (LIDB) Access Service15.1.1 General

Line Information Data Base (LIDB) Access Service provides the customer the ability to access billing validation data contained on the Telephone Company's LIDB located in Johnson City, Tennessee and Bristol, Tennessee. The LIDB is accessed through the Telephone Company SS7 network which utilizes American National Standards Institute (ANSI) signaling protocol. Access to the Telephone Company's LIDB provides customers the ability to provide toll fraud protection by validating calling card and toll billing exception data and performing public telephone checks.

15.1.2 Description

LIDB Access Service is provided by the Telephone Company to its customers in support of alternate billing services. LIDB Access Service provides access to billing validation data which resides on the Telephone Company data base for use with alternate billing services. Alternate billing services allow customer's end users the ability to bill calls to an account not necessarily associated with the originating line. LIDB Access Service supports alternate billing services such as Calling Card, Collect Calls, and Third Number Billing.

Customers participating in LIDB Access Service for purposes of obtaining billing validation data, which resides on the Telephone Company data base, originate queries to the LIDB from an operator services system (OSS) identified by an originating point code (OPC). The LIDB query is routed through one of two Telephone Company inter-connecting Signaling Transfer Points (STPs), located in Johnson City, Tennessee and Bristol, Tennessee, to the Telephone Company Regional Service Control Point (SCP) where the LIDB resides.

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The requested billing validation data, in the form of signaling information, is passed back via either one of the two Telephone Company interconnecting STPs to the customer's designated OSS where the LIDB query was originated. The Telephone Company LIDB will receive and respond to Calling Card Service and Billed Number Screening queries as defined in Technical Reference Publications GR-246, FR-271, GR-905 and GR-954.

LIDB Access Service will provide the following functions on a per query basis:

- Validation of a telecommunications calling card stored on LIDB.
- Determination of whether the billed line automatically rejects certain calls billed as collect or third number.
- Determination of whether the billed line in the Billed Number Screening Query is a public telephone number using the "Service or Equipment Indicator" in the LIDB.

All access to the Telephone Company's LIDB will occur through two Telephone Company interconnecting STPs located in Johnson City, Tennessee and Bristol, Tennessee. The Telephone Company will provide customer interconnection to the Telephone Company interconnecting STPs through its Common Channel Signaling/Signaling System 7 (CCS/SS7) Interconnection Service provided in Section 6.8.2(G) preceding.

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Unless expressly authorized in writing by the customer and the Telephone Company, LIDB Access Service is not to be used for purposes other than those LIDB functions described in 15.1.2 preceding. LIDB Access Service is to be used for those services only on a call-by-call basis and data accessed on LIDB may not be stored elsewhere for future use.

Proprietary information resident in the Telephone Company LIDB is protected from unauthorized access and may not be stored in a customer's data base for any reason. All information related to alternate billing services is proprietary. Some examples of proprietary information are as follows:

- Billed Number (resides in the Telephone Company LIDB)
- PIN Number(s) (resides in the Telephone Company LIDB)
- Billed Number Screening (BNS) indicators (resides in the Telephone Company LIDB)
- Reports on LIDB usage
- Information related to billing for LIDB usage
- LIDB usage statistics

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15. Common Channel Signaling/Signaling System 7 (CCS/SS7) Data Base Services (Cont'd)15.1 Line Information Data Base (LIDB) Access Service (Cont'd)15.1.2 Description (Cont'd)(B) Rate Categories

There are two basic elements which apply to LIDB Access Service: Query Transport and Query.

(1) Query Transport

The Query Transport rate element provides for the transmission facilities between the Telephone Company's STPs located in Johnson City, Tennessee and Bristol, Tennessee and the Telephone Company SCP where the LIDB resides.

(2) Query

The Query rate element provides for the validation of calling card and toll billing exception data and performance of public telephone checks. For these validation purposes, LIDB Access Service customers will query the LIDB located in the Telephone Company SCP via the Telephone Company CCS/SS7 network. The LIDB will respond with a verification signal message back to the LIDB Access Service customer via the Telephone Company CCS/SS7 network.

The charges associated with Query Transport and Query are set forth in 15.1.6 following:

(C) Acceptance Testing

The Telephone Company will perform testing of the LIDB Access Service in conjunction with CCS/SS7 Interconnection Service as outlined in Technical Reference Publications GR-905 and GR-954.

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15. Common Channel Signaling/Signaling System 7 (CCS/SS7) Data Base Services (Cont'd)15.1 Line Information Data Base (LIDB) Access Service (Cont'd)15.1.2 Description (Cont'd)(D) Ordering Options and Conditions

LIDB Access Service is ordered under the Access Order provisions set forth in Section 5. preceding. Also, included in that section are other charges which may be associated with ordering LIDB Access Service (e.g., Service Date Change Charges).

15.1.3 Undertakings of the Telephone Company

In addition to the obligations of the Telephone Company set forth in Section 2. preceding, the Telephone Company has certain other obligations pertaining only to the provision of LIDB Access Service. These obligations are as follows:

(A) LIDB Data Specifications

The Telephone Company's LIDB will contain a record for every working line number and Billed Number group, served by the Telephone Company. Other exchange carriers who may store their data in the Telephone Company LIDB are requested to provide this data as well.

The Telephone company will administer its LIDB update process by use of a Data Base Administration system (DBAS). Updates contain information for calling card, collect and bill-to-third Party Alternate Billing Services (ABS) verification.

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The Telephone Company generates customer record service order update activity which is electronically transferred to LIDB from the DBAS system. Mechanized updates (e.g. add, delete, modify customer accounts as customers move, order new service, disconnect service, or become delinquent on their account) are processed daily, 6 days per week, Monday through Saturday. Emergency updates for calling cards reported lost, stolen or otherwise compromised will be made 7 days per week, 24 hours per day.

ABS query usage within LIDB is monitored for unusual patterns which may be indicators of abuse or attempted fraud. By using a threshold method, when validation queries for a specific LIDB record reach the Telephone Company established usage threshold level, the number is placed on an exception list and an investigator will determine the validity of the usage. If the usage is determined to be invalid, the investigator will immediately deactivate the record in LIDB.

Usage thresholds will be established by the Telephone Company. Thresholds may vary by class of end user account (e.g. residence, business). Usage thresholds are applied uniformly within LIDB, and will monitor combined query usage from all LIDB Access Service Customers.

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The Telephone Company will also establish usage thresholds which, when met by query activity to a calling card record, will automatically disable the record in LIDB. The number is placed on an exception list and an investigator will determine validity of the usage. If a calling card is automatically disabled and the usage is determined valid, the calling card will be reactivated in LIDB.

The Telephone Company will administer its LIDB to insure the provision of acceptable service levels to all customers. During periods of LIDB congestion, an automatic call gapping procedure will be utilized to control such congestion. The automatic call gapping procedure signals the switch and identifies the gap (how long the switch should wait before sending another query) and the duration (how long the switch should continue to perform gapping) according to the level of congestion. For example, during an overload condition, the automatic call gapping procedure will signal the switch when to begin to drop one out of three of the queries received. This call gapping procedure will be applied uniformly to all users of the Telephone Company's LIDB service.

The Telephone Company maintains the right to invoke manual intervention of the automatic call gapping procedure to preserve the integrity of the network.

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15. Common Channel Signaling/Signaling System 7 (CCS/SS7) Data Base Services (Cont'd)15.1 Line Information Data Base (LIDB) Access Service (Cont'd)15.1.3 Undertakings of the Telephone Company (Cont'd)(B) Provision of Billing Information

LIDB Access Service Queries received at the SCP are accumulated and records are generated identifying the number of queries processed by the originating point code (OPC) of the customer's Operator Service System (OSS) location. This information is delivered to the accounting office via tape or by teleprocessing for processing and billing. The query charges will be accumulated and billed to the LIDB Access Service customer each month.

The Telephone Company will provide sufficient information with the bill to enable the customer to determine how the billed amount was calculated. Included on the bill will be separate entries displaying the Billed Number Screening queries and the Calling Card Number queries.

Other reports may be provided as mutually agreed upon. Such agreements, provided on an individual case basis, may involve additional charges or conditions.

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15. Common Channel Signaling/Signaling System 7 (CCS/SS7) Data Base Services (Cont'd)15.1 Line Information Data Base (LIDB) Access Service (Cont'd)15.1.4 Obligations of the Customer

In addition to the obligations of the customer set forth in Section 2. preceding, the customer has certain specific obligations pertaining to the use of LIDB Access Service. These obligations are as follows:

(A) LIDB Access Service PIU Report

The customer shall provide to the Telephone Company a LIDB Access Service Percent Interstate Usage (PIU) Report in accordance with the provisions specified in Section 2.3.11 preceding.

15.1.5 Rate Regulations

This section contains the specific regulations governing the rates and charges that apply for LIDB Access Service.

(A) Description of Rates and Charges

There are two types of rates and charges that will apply to LIDB Access Service. These are usage rates and nonrecurring charges. These rates and charges are applied as set forth in (1) and (2) following. For billing purposes, each month is considered to have 30 days.

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The usage rates (Query Transport and Query) for LIDB Access Service are applicable on a per query basis as described in (B) following.

(2) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for a specific activity (i.e., installation or change to an existing service). The nonrecurring charges that apply for installation of LIDB Access Service are described in (a) following. The nonrecurring charges that apply for service rearrangements are described in (b) following.

(a) Establishment of Service

Nonrecurring charges apply for each request for establishment of LIDB Access Service. The nonrecurring charges for the establishment of LIDB Access Service are set forth in Section 5.2.2 preceding.

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Service Rearrangements are changes to existing services which do not result in either a change in the minimum period requirements as set forth in Section 5.2.6 preceding or a change in the location designated by the OPC.

Changes which result in the establishment of new minimum period obligations are treated as a discontinuance of the existing service and establishment of a new service and all applicable nonrecurring charges will apply.

Certain service rearrangements which are administrative in nature (as specified in Section 6.7.1(C)(3)) will be made without charge except as noted.

Provisions for service rearrangements for which nonrecurring charges will apply are also set forth in Section 6.7.1(C)(3) preceding.

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Rates and charges for LIDB Access Service are applied as follows:

(1) Query Transport

Query Transport is a usage rate charge which applies to each query routed over transmission facilities between the Telephone Company's STPs in Johnson City, Tennessee and Bristol, Tennessee and the Telephone Company SCP where the LIDB resides. These charges are applied on a per query basis, and are accumulated over a monthly period and billed to the customer on a monthly basis.

(2) Query

A usage rated Query Charge applies to each LIDB query received at the Telephone Company Service Control Point (SCP). Per query charges are accumulated over a monthly period and are billed to the customer on a monthly basis.

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LIDB Access Service is provided for a minimum of one month. When service is disconnected prior to the expiration of the minimum period, usage charges are applicable for the balance of the minimum period. If service is disconnected after the minimum period, usage charges will be based on the actual number of queries. For the purpose of administering this regulation, with respect to the determination of charges for a fractional part of a month, every month is considered to have 30 days.

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	<u>Rate</u>
(A) <u>Query Transport</u>	
- per query	
Florida	\$0.0016
Indiana#	\$0.0016
Kansas	\$0.0016
Minnesota	\$0.0016
Missouri#	\$0.0016
Nebraska	\$0.0016
Nevada	\$0.0016
New Jersey	\$0.0016
North Carolina	\$0.0016
Ohio	\$0.0016
Oregon	\$0.0016
Pennsylvania	\$0.0016
South Carolina	\$0.0016
Tennessee	\$0.0016
Texas	\$0.0016
Virginia	\$0.0016
Washington	\$0.0016
Wyoming	\$0.0016

See Section 1.3 preceding.

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(Cont'd)15.1 Line Information Data Base (LIDB) Access Service (Cont'd)15.1.6 Rate and Charges (Cont'd)

	<u>Rate</u>
(B) <u>Query</u>	
- per query	
Florida	\$0.0366
Indiana#	\$0.0366
Kansas	\$0.0366
Minnesota	\$0.0366
Missouri#	\$0.0366
Nebraska	\$0.0366
Nevada	\$0.0366
New Jersey	\$0.0366
North Carolina	\$0.0366
Ohio	\$0.0366
Oregon	\$0.0366
Pennsylvania	\$0.0366
South Carolina	\$0.0366
Tennessee	\$0.0366
Texas	\$0.0366
Virginia	\$0.0366
Washington	\$0.0366
Wyoming	\$0.0366

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